

**Industrial Ethernet
IE-SW-VL16-14TX-2SC**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Product image

- Wide ranges of variations with 5 to 16 ports
- Variations for Gigabit Ethernet
- Two redundant power inputs 12/24/48 V DC
- Models with copper and fibre-optic interface (multimode and singlemode)
- Extensive approvals: CE, FCC, cULus, Class I Div. 2 / ATEX Zone 2, DNV-GL

General ordering data

Type	IE-SW-VL16-14TX-2SC
Order No.	1241030000
Version	Network switch, unmanaged, Fast Ethernet, Number of ports: 14x RJ45, 2x SC Multi-mode, IP30, 0 °C...60 °C
GTIN (EAN)	4050118029031
Qty.	1 pc(s).

Creation date August 22, 2020 12:13:37 PM CEST

Catalogue status 14.08.2020 / We reserve the right to make technical changes.

**Industrial Ethernet
IE-SW-VL16-14TX-2SC**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Technical data
Dimensions and weights

Width	80.5	Width (inches)	3.169 inch
Height	135 mm	Height (inches)	5.315 inch
Depth	105 mm	Depth (inches)	4.134 inch
Net weight	1,293 g		

Environmental Product Compliance

REACH SVHC Lead 7439-92-1

EMC conformity and approvals

EMC standards	EN 55032, EN 55024, CISPR 32, FCC Part 15 Subpart B Class A, IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m, IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV, IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV, IEC 61000-4-6 CS: 10 V, IEC 61000-4-8	Safety standard	UL508, UL 60950-1, EN 60950-1
Explosive risk zone	UL/cUL, Class I, Division 2, Groups A, B, C and D, ATEX Zone 2 Ex nA nC IIC T4 Gc	Ship use	DNV-GL
Shock	according to IEC 60068-2-27	Vibration	according to IEC 60068-2-6
Free fall	According to IEC 60068-2-32		

Environmental conditions

Humidity	5 to 95 % (non-condensing)	Operating temperature, max.	60 °C
Operating temperature, min.	0 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C		

Fibre optic transceiver characteristics

Transmission rate	100 Mbps		
Transceiver type	Multimode		
Connector type	SC-Duplex		
Transmission distance, typ.	5 km		
Wavelength	typ.	1,300 nm	
	Wavelength	TX	
	min.	1,260 nm	
	max.	1,360 nm	
	Wavelength	RX	
	min.	1,100 nm	
Receive power	min.	-32 dBm	
	max.	-3 dBm	
Transmission power	min.	-20 dBm	
	max.	-10 dBm	

Creation date August 22, 2020 12:13:37 PM CEST

**Industrial Ethernet
IE-SW-VL16-14TX-2SC**

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Technical data

Link-budget 12 dB

Guarantee

Time interval 5 years

Interfaces

DIP switch	Port surveillance, Broadcast storm protection enable/disable	Fibre-optic ports	100BaseFX ports (SC connector), Multimode
LED indicator	PWR1, PWR2, FAULT, 10/100M (TP-Port), 100M (fibre-optic port).	Number of ports	14x RJ45, 2x SC Multi- mode
RJ45 ports	10/100BaseT(X), auto negotiation, Full-/half- duplex mode, Auto MDI/ MDI-X port	Signalling contact	1 relay output with a current capacity of 1 A at 24 V DC

MTBF

MTBF 257,000 hrs Database MIL-HDBK-217F, GB 25°C

Power supply

Connection type	1 removable 6-pin terminal block		
Current consumption	0.44 A at 24 V		
Overload current protection	1.6 A		
Reverse polarity protection	Available		
Voltage supply	12/24/48 V DC, 2 redundant inputs		
Voltage supply range	Voltage type	DC	
	Voltage, min.	9.6 V	
	Voltage, max.	60 V	

Switch characteristics

Bandwidth backplane	3.2 Gbps	MAC table size	4 K
Packet buffer size	1.25 Mbit		

Technical data

Housing main material	metal	Protection degree	IP30
Type of mounting	DIN rail, Panel (with optional mounting kit)		

Technology

Data switching	Store and Forward	Flow control	IEEE 802.3x flow control, Back pressure flow control
Standard	IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X) and 100BaseFX, IEEE 802.3x for flow control		

Data sheet

**Industrial Ethernet
IE-SW-VL16-14TX-2SC**

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Technical data

Classifications

ETIM 6.0	EC000734	ETIM 7.0	EC000734
eClass 9.0	19-17-01-06	eClass 9.1	19-17-01-06
eClass 10.0	19-17-04-02		

Approvals

Approvals



ROHS Conform

Downloads

Approval/Certificate/Document of Conformity	DNV-GL certificate ATEX certificate KC certificate EU Declaration of Conformity
Brochure/Catalogue	CAT 9 IETH 18/19 EN
Engineering Data	EPLAN
Engineering Data	STEP
User Documentation	Hardware Installation Guide